Minutes of Meeting LOFAR Software

Date:	2009-12-02
Next meeting:	2009-12-09 9:15-10:15
	Multimedia room
Present:	
Andre Gunst	Yes
Ronald Nijboer	No
Ruud Overeem	Yes
John Romein	Yes
Michael Wise	No

cc: Arnold Meijster, Rob van Nieuwpoort, Arthur Coolen, Jurjen Sluman, Pieter Donker, Chris Broekema, Joris v. Zwieten, Marcel Loose, Adriaan Renting, Ger van Diepen, Michiel v. Haarlem, Jan Reitsma, Ger de Bruyn, Arno Schoenmaker, Hanno Holties, Corina Vogt, Jan Noordam, Joe Masters, Lars Bähren, Dion Kant, Johan Hamaker, Sven Duscha, Jan-David Mol, Teun Grit, Alwin de Jong, Frank Breitling.

Remarks previous minutes

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Announcements

- A hardware busy week is held from 30 November 4 December 2009.
- An imaging busy week from 14-18 December is planned.
- This week the 18th station was connected to Groningen.

Action item overview

ID	Date	Description	Owner	Planned	Status
	submitted			date	
88	20090825	Migrate the USG repository on the	Michael via	20100601	Open
		LOFAR repository server. No urgency.	Lars		
89	20091015	Scale up the benchmark numbers of	Ronald	20091030	Open
		BBS and the imager. In progress.			
91	20091118	Setup cosmic ray pipeline meeting.	Michael	20091215	Open
92	20091118	Re-discuss the HBA beam pointing	All	20091203	Open
		issue for multiple digital beams.			

Last: 94

Progress

Stations (André):

Achieved since last meeting:

 The LBA calibration module in Matlab is compiled to a C library and waits to be tested. This can be done after the LCU software is compatible with ITRF coordinates. See MAC/SAS section.

- Access to the environmental controller in Effelsberg is realized. Furthermore Effelsberg can work now under MAC/SAS control.
- There is an HBA power issue. Switching on all HBAs at the same time causes a significant power dip. This can be solved by the software and to switch on the HBA electronics per subrack. The best is to implement this in the CalServer. The consequence is that users via rspctl can still switch on all HBAs at the same time.
- Currently the LOFAR test lab is cleaned up.

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Problems / current activities:

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Next actions:

Continue with LOFAR20

OLAP (John):

Achieved since last meeting:

- Chris is busy with phasing out the old cluster hardware.
- Communication between IO node and storage node is not always stable. This is still under investigation.

Problems / current activities:

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Next actions:

• Continue with LOFAR20

SAS + MAC + SHM (Ruud):

Achieved since last meeting:

- Arthur modifies SAS for OLAP changes. Old fields will be removed and new fields defined.
- Issues with the RSPDriver are solved by Pieter (this is about why some modes are not set and not enabled).
- Operations had some issues by starting observations via MAC/SAS. The underlying problem is in the GCFevent framework. Ruud is busy to solve this. The current status is that everything compiles again and that the testing is in progress. This has priority above the ITRF beamserver issue.

Problems / current activities:

- Look into enhancing the temperature control.
- Analyzing the log stream of the BG/P happens after MAC/SAS integration.

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Next actions:

• Continue with LOFAR20

Offline pipeline (Ronald):

Achieved since last meeting:

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Problems / current activities:

- The bug in facet imaging is partially solved by the Australians.
- The ability to apply direction dependent corrections will be available at the end of next week. A beam model and ionospheric model is necessary to connect to that.

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Next actions:

• Continue with LOFAR20

User Software (Michael):

Achieved since last meeting:

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Problems / current activities:

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Next actions:

• Continue with LOFAR20

Software integration

Achieved since last meeting:

• The CMake MPI environment does not work properly yet.

Problems / current activities:

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Next actions:

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Decisions

02 20061220 Every Step will start with a Kick-off meeting, in which the complete software to participates. 03 20061220 Every Step will start with a Kick-off meeting, in which the complete software to participates. 04 20070116 The project team starts immediately with the preparations of the next CDR in opreserve progress of the CS1 realization. 05 20070110 This meeting will take place every week on Tuesday 11:00. The existing software team meeting with all developers will stop to exist. 05 20070130 Step 1 will be changed to 16 subbands instead of 32 subbands. 06 20070130 Step 2 will contain a multiple node BBS. 6 μStations/Station will be postponed Instead of this, 32 subbands measurements will be realized. 07 20070206 Step 1 will support 160 MHz observations. The other steps will support 200 Ml well. 08 20070424 Step 2 will support 16 subbands @ 200MHz and 24 MHz at 160 MHz observations during the weekend. 10 20070522 The number of subbands per Measurement Set is set to 6 or 8 default. 11 20070522 The number of subbands per Measurement Set is set to 6 or 8 default. 12 20070522 Procure, three Local Control Units to accommodate 12 microstations in CS010 quick way. 13 20070529 Integrate version numbers		Date ubmitted	Decision	
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22 20071123 Station calibration work is smeared out over Step 4 and Step 5.	21 20	0071123		
	22 20	20071123		
L ZD - L ZUU7 L LZD L CHODAL DAHQDASS SHADE IS HIOVEG 10 5HED D DECAUSE OF HS IOW DITOTIV		0071123	Global bandpass shape is moved to Step 5 because of its low priority.	
			Multiple beams per observation will be implemented instead of multiple observations	

	<u> </u>	(this is consistent with the man)	
25	20071211	(this is consistent with the plan).	
25	20071211	Step 3 will be closed next Thursday. Any open items will be finished in Step 4.	
26	20080130	Multiple beams are defined as multiple directions with the same set of antennas.	
27	20000207	Hence, only the angle, subbands and beamlets can be modified per beam.	
27	20080206	Step 4 and Step 5 for MAC/SAS will be changed. The control of the offline pipeline	
		will be postponed because the offline subsystems are not fixed yet. Currently the	
		definition and design of the metadata flows will be set as goal for Step 4 and the	
		implementation of the metadata flow will be the end goal of Step 5. Hence, after Step 5 (part of) the metadata is included in the Measurement Set.	
28	20080213	Currently a single subband and single beam is stored in a Measurement Set. As soon	
20	20080213	as we are ready for mosaicing this probably should be changed in the future.	
29	20080220	For storing the raw station beams the sanitizing operations like input buffer will be	
2)	20000220	included in the online part. For this OLAP has to give operational support or	
		instructions to the observers how to start up manually such observations. Since, this is	
		an between solution this will not be automated via SAS/MAC.	
		an octiven solution and will not be automated the original to.	
30	20080227	Weekly build environment will be updated and automated.	
31	20080227	After Step 5 the software documentation will be updated and obsolete packages will	
		be removed.	
32	20080423	Basically two Low Band modes will be supported initially: a LBL and LBH mode.	
		The connection between antennas and RCUs have to be chosen such that those to	
		modes make sense.	
33	20080528	The position of all individual dipoles will be made available centrally in the database.	
34	20080603	The data format of the positions will be delivered in ETRS coordinates by the roll out	
		team. However, the data format of the positions will be stored in ITRF format in the	
		LOFAR databases. Hence, all software and configuration files dealing with	
		coordinates must be made compatible with the ITRF dataformat. Hans van de Marel	
		is responsible to convert the ETRS coordinates to ITRF coordinates for the LOFAR	
2.5	20000002	system.	
35	20080903	Kubuntu will be installed on LOFAR18, which will serve as a software development	
26	20001022	machine.	
36	20081022	Station cabinet will be heated (if necessary) to 10 degrees Celsius (for the LCU).	
37	20081029	We will transfer the build environment to cmake.	
38	20081029	Step 1 will be closed at 11 November.	
39	20081112	Bugs found in the field have the highest priority to solve. Bugs which take more than	
		a week to solve will be added to the task list and prioritized in the software meeting.	
		During bug solving tests should be written up, which proves the correct behavior. These tests will result in a procedure to check the functionality when new soft/firm	
		ware is loaded.	
40	20081126	The 4 bit mode will be supported after MS^3.	
41	20081203	We will modify the build environment to cmake from now on.	
42	20090129	Transient source modeling tool under Python will be used for source modeling.	
43	20090129	Delay deadline of Step 2 to 26 February 2009.	
44	20090209	Remote Stations including the ring splitter near the core will be renamed to CS	
		stations.	
45	20090813	No connection from the Dwingeloo test environment to Groningen is necessary	
		anymore.	
46	20090825	Create a Bugzilla environment for the USG software.	
47	20090825	Use one subcluster per group, contactpersons and guidelines defined (see section	
		Software integration).	
48	20090909	Use the filter range names of MAC/SAS for the ICDs and the archive model.	
Last:		· · · · · · · · · · · · · · · · · · ·	

Last: 48

Holidays

• Ronald: end of November

Table round

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